Number   94   jeong.in. and optical and pickup	L	Hits	Search Text	DB	Time stamp
Second	Number				_
-   6   jeong-ho-seop.in. and optical and pickup	-	94	jeong.in. and optical and pickup	US-PGPUB; EPO; JPO; DERWENT;	
-   475	_	6	jeong-ho-seop.in. and optical and pickup	USPAT; US-PGPUB; EPO; JPO; DERWENT;	
emits4 ) and ((then hologram) with detect\$3 and diffract\$4) and ((grating diffract\$4) and ((three adj beam adj method) (\$40cder ad) (beam light laser)))	-	475	"lead frame package"		1
-	_	264	<pre>emit\$4))) and ((hoe hologram) with detect\$3 and diffract\$4) and ((grating diffract\$4) same ((three adj beam adj method) (\$4order adj (beam light</pre>	USPAT	
-   0	-	0	"lead frame package" and ((laser ((light radiation) adj (source emit\$4))) and ((hoe hologram) with detect\$3 and diffract\$4) and ((grating diffract\$4) same ((three adj beam adj method)	USPAT	1 ' '
emits4))) and ((hoe hologram) with (detects3 photoSldetects3) and diffract\$4) and ((grating diffract\$4) same ((three adj beam adj method) (\$(40 cmits4)) and ((hoe hologram) with (detects3 photoSldetect\$3) and diffract\$4) and ((grating diffract\$4) same ((((three "3") adj beam) "3-beam" three-beam) adj method) (\$40 cmits4)) with (detect\$3 photoSldetect\$3) and diffract\$4) same ((((three "3") adj beam) "3-beam" three-beam) adj method) (\$40 cmits4)) with (lousing substrate mount sub\$1mount ((single integrat\$4) with unit)) and ((hoe hologram) with (detect\$3 photoSldetect\$3) and diffract\$4) and ((grating diffract\$4) same ((((three "3") adj beam) "3-beam" three-beam) adj method) (\$40 cmits4)) same ((((three "3") adj beam) "3-beam" three-beam) adj method) (\$40 cmits4) size) (laser ((light radiation) adj (source emits4))) with mirror with (compact\$4 size) and 369/\$7.ccls.  - 1972 (laser ((light radiation) adj (source emits4))) with mirror with (compact\$4 size) and 369/\$7.ccls.  - 2 ("13 cmits4)) with mirror with (compact\$4 size) and 369/\$7.ccls.  - 34 ((laser ((light radiation) adj (source emits4))) with mirror with (compact\$4) and 369/\$7.ccls.  - 2 ("5982732"   "6404709").PN.  - 75 ((laser ((light radiation) adj (source emits4))) with (mirror with (compact\$4) and 369/\$7.ccls.  - 2 ("5982732"   "6404709").PN.  - 75 ((laser ((light radiation) adj (source emits4))) with (bousing substrate mount sub\$1mount ((single integrat\$4) with unit)) and ((hoe hologram) with diffract\$4) and ((grating diffract\$4) same (((((three "3") adj beam) "3-beam" three-beam) adj method) (\$40 cme adj	-	0	"lead frame package" and 369/\$7.ccls.	USPAT	13:03
-	-	294	emit\$4))) and ((hoe hologram) with (detect\$3 photo\$1detect\$3) and diffract\$4) and ((grating diffract\$4) same ((three adj beam adj method)	USPAT	
156	_	310	(laser ((light radiation) adj (source emit\$4))) and ((hoe hologram) with (detect\$3 photo\$1detect\$3) and diffract\$4) and ((grating diffract\$4) same ((((three "3") adj beam) "3-beam" three-beam) adj method) (\$4order adj	USPAT	1
emit\$4))) with mirror with (compact\$4   size)	_	156	((laser ((light radiation) adj (source emit\$4))) with (housing substrate mount sub\$1mount ((single integrat\$4) with unit))) and ((hoe hologram) with (detect\$3 photo\$1detect\$3) and diffract\$4) and ((grating diffract\$4) same ((((three "3") adj beam) "3-beam" three-beam) adj method) (\$4order adj	USPAT	1
emit\$4))) with mirror with (compact\$4 size)) and 369/\$7.ccls.  (laser ((light radiation) adj (source emit\$4))) with mirror with (compact\$4)  ((laser ((light radiation) adj (source emit\$4))) with mirror with (compact\$4)  and 369/\$7.ccls.  2 ("5982732"   "6404709").PN.  USPAT 2004/02/25  13:56  13:56  USPAT 2004/02/25  13:56  USPAT 2004/02/25  14:38  ((laser ((light radiation) adj (source emit\$4))) with (housing substrate mount sub\$1mount ((single integrat\$4)) with (detect\$3 photo\$1detect\$3) with (detect\$3 photo\$1detect\$3) with (diffract\$4) and ((grating diffract\$4) same ((((three "3") adj beam) "3-beam" three-beam) adj method) (\$4order adj	-	1972	emit\$4))) with mirror with (compact\$4	USPAT	
- 559 (laser ((light radiation) adj (source emit\$4))) with mirror with (compact\$4)  - 34 ((laser ((light radiation) adj (source emit\$4))) with mirror with (compact\$4))	-	86	emit\$4))) with mirror with (compact\$4	USPAT	
emit\$4))) with mirror with (compact\$4)) and 369/\$7.ccls.  2 ("5982732"   "6404709").PN.  USPAT  ((laser ((light radiation) adj (source emit\$4))) with (housing substrate mount sub\$1mount ((single integrat\$4) with unit))) and ((hoe hologram) with (detect\$3 photo\$1detect\$3) with diffract\$4) and ((grating diffract\$4) same (((((three "3") adj beam) "3-beam" three-beam) adj method) (\$4order adj	-	559	<pre>(laser ((light radiation) adj (source emit\$4))) with mirror with (compact\$4)</pre>	USPAT	13:56
- 2 ("5982732"   "6404709").PN. USPAT 2004/02/25 14:38  - 75 ((laser ((light radiation) adj (source emit\$4))) with (housing substrate mount sub\$1mount ((single integrat\$4) with unit))) and ((hoe hologram) with (detect\$3 photo\$1detect\$3) with diffract\$4) and ((grating diffract\$4) same (((((three "3") adj beam) "3-beam" three-beam) adj method) (\$4order adj	_	34	emit\$4))) with mirror with (compact\$4))	USPAT	
emit\$4))) with (housing substrate mount sub\$1mount ((single integrat\$4) with unit))) and ((hoe hologram) with (detect\$3 photo\$1detect\$3) with diffract\$4) and ((grating diffract\$4) same (((((three "3") adj beam) "3-beam" three-beam) adj method) (\$4order adj	_		("5982732"   "6404709").PN.		14:38
(beam light laser))))	-	75	<pre>emit\$4))) with (housing substrate mount sub\$1mount ((single integrat\$4) with unit))) and ((hoe hologram) with (detect\$3 photo\$1detect\$3) with diffract\$4) and ((grating diffract\$4) same (((((three "3") adj beam) "3-beam"</pre>	USPAT	

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-	101	<pre>((laser ((light radiation) adj (source emit\$4))) with (housing substrate mount sub\$1mount ((single integrat\$4) with unit))) and ((hoe hologram) with (detect\$3 photo\$1detect\$3) with diffract\$4) and ((detect\$3</pre>	USPAT	2004/02/26
	2626	photo\$1detect\$3) with (mov\$4 remov\$4 seperate adjust\$5)) ((positioning adjusting arranging) with	USPAT	2004/02/26
_	3626	((positioning adjusting arranging) with (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3)))	USPAI	09:06
-	89	<pre>((positioning adjusting arranging) with (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3)) with ((monitoring reading) with (signal output)))</pre>	USPAT	2004/02/26 09:08
-	0	((positioning adjusting arranging) with (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3)) with ((monitoring reading) with (signal output))) and (hoe hologram) and 369/\$7.ccls.	USPAT	2004/02/26 09:08
_	29	((positioning adjusting arranging) with (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3)) with ((monitoring reading) with (signal output))) and 369/\$7.ccls.	USPAT	2004/02/26 09:28
_	0	(((positioning adjusting arranging) adj (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3))) with ((monitoring reading) with (signal output))) and 369/\$7.ccls.	USPAT	2004/02/26 09:30
-	44		USPAT	2004/02/26 09:30
_	5	(((positioning adjusting arranging) adj (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3))) same (manufactur\$3 assembl\$3 fix\$3 attach\$4)) and 369/\$7.ccls.	USPAT	2004/02/26 09:31
_	9	(((positioning adjusting arranging) adj2 (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3))) same (manufactur\$3 assembl\$3 fix\$3 attach\$4)) and 369/\$7.ccls.	USPAT	2004/02/26
-	76		USPAT	2004/02/26
_	82	((positioning adjusting arranging) adj2 (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation optical) adj detect\$3))) and 369/\$7.ccls.	USPAT	2004/02/26 09:51
-	322	((position adjusting arranging) adj2 (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation optical) adj detect\$3))) and 369/\$7.ccls.	USPAT	2004/02/26 09:47
_	7	(((position\$3 adjust\$3 arrang\$3) near2 (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation optical) adj detect\$3))) with ((output signal) near2 (monitoring monitored	USPAT	2004/02/26 10:08
-	4	observ\$3 according))) and 369/\$7.ccls.	USPAT	2004/02/26 09:59

	5463	<pre>package) same (((plural\$3 second\$3 two) near3 substrate) ((substrate near   (photo\$1diode photo\$1detector (photo adj   (detector diode)))) same (substrate near   (laser ((light radiation) adj (source)</pre>	USPAT	2004/02/26 10:55
	43	unit) package) same (((plural\$3 second\$3 two) near3 substrate) ((substrate near (photo\$1diode photo\$1detector (photo adj (detector diode)))) same (substrate near (laser ((light radiation) adj (source	USPAT	2004/02/26 10:56
_	5463	<pre>emit\$4)))))))) and 369/\$7.ccls. ((housing ((single integrat\$4) with unit) package) same (((plural\$3 second\$3 two) near3 substrate) ((substrate near (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3))) same (substrate near (laser ((light radiation) adj (source emit\$4)))))))</pre>	USPAT	2004/02/26 10:57
-	43	<pre>(((housing ((single integrat\$4) with unit) package) same (((plural\$3 second\$3 two) near3 substrate) ((substrate near (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3))) same (substrate near (laser ((light radiation) adj (source emit\$4))))))))) and 369/\$7.ccls.</pre>	USPAT	2004/02/26 10:56
-	243	<pre>(photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3)) adj substrate</pre>	USPAT	2004/02/26 10:57
_	16		USPAT	2004/02/26 11:10
_	2377	((remov\$4 mov\$4 replac\$5 adjust\$4 position\$4 arrang\$4) with substrate) and 369/\$7.ccls.	USPAT	2004/02/26
-	1246		USPAT	2004/02/26
-	245	((remov\$4 mov\$4 replac\$5 adjust\$4 position\$4 arrang\$4) adj substrate) and 369/\$7.ccls.	USPAT	2004/02/26 11:12
-	1032	((remov\$4 mov\$4 replac\$5 adjust\$4 position\$4 arrang\$4) with substrate) and (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3)) and 369/\$7.ccls.	USPAT	2004/02/26 11:14
-	318	((remov\$4 mov\$4 replac\$5 adjust\$4 position\$4 arrang\$4) with substrate) and ((photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3)) with substrate) and 369/\$7.ccls.	USPAT	2004/02/26 11:25
-	113	<pre>(((remov\$4 mov\$4 replac\$5 adjust\$4 position\$4 arrang\$4) with substrate) and ((photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3)) with substrate) and 369/\$7.ccls.) and (housing ((single integrat\$4) with unit) package)</pre>	USPAT	2004/02/26
-	1	"6111842".PN.	USPAT	2004/02/26
-	200	((remov\$4 mov\$4 replac\$5 adjust\$4 positioning) with substrate) and ((photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3)) with substrate) and 369/\$7.ccls.	USPAT	11:20 2004/02/26 11:26

_	62	positioning) with substrate) and ((photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj	USPAT	2004/02/26 11:49
_	172	<pre>detect\$3)) with substrate) and 369/\$7.ccls.) and (housing ((single integrat\$4) with unit) package) (flip\$1chip "flip chip") same (photo\$1diode photo\$1detector (photo adj</pre>	USPAT	2004/02/26 11:55
		<pre>(detector diode)) ((light radiation) adj detect\$3))</pre>		
-	. 9	<pre>(chip\$1on\$1board "chip on board") same (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3))</pre>	USPAT	2004/02/26 11:51
_	101	<pre>(flip\$1chip "flip chip") with (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3))</pre>	USPAT	2004/02/26 12:07
-	2	((flip\$1chip "flip chip") with (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3))) and 369/\$7.ccls.	USPAT	2004/02/26 12:12
-	2	<pre>((flip\$1chip "flip chip") with (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3))) and (optical adj (head pick\$1up "pick up"))</pre>	USPAT	2004/02/26 11:58
_	0	<pre>((flip\$1chip "flip chip") adj package) with (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3))</pre>	USPAT	2004/02/26
-	2	<pre>((flip\$1chip "flip chip") adj package) same (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3))</pre>	USPAT	2004/02/26 12:00
-	0	<pre>((chip\$1on\$1board "chip on board") same (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3))) and ((flip\$1chip "flip chip") same (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3)))</pre>	USPAT	2004/02/26 12:08
-	199	<pre>((flip\$1chip "flip chip") with (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3)))</pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/02/26 12:40
-	5	<pre>((flip\$1chip "flip chip") with (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3)) with (smaller cheaper expensive compact improv\$3 increas\$3 decreas\$3))</pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/26 12:40
	4	<pre>((flip\$1chip "flip chip") with (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3)) with (enhanc\$4 efficient\$2 reduc\$4))</pre>	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2004/02/26 12:27
_	0	((((flip\$1chip "flip chip") with (photo\$1diode photo\$1detector (photo adj (detector diode)) ((light radiation) adj detect\$3)))) and ((flip\$1chip "flip chip") with (smaller cheaper expensive compact improv\$3 increas\$3 decreas\$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/26 12:42
		enhanc\$4 efficient\$2 reduc\$4))) and (optical adj (head pick\$1up "pick up"))		

[-	0	((((flip\$1chip "flip chip") with	USPAT;	2004/02/26
		(photo\$1diode photo\$1detector (photo adj	US-PGPUB;	12:42
		(detector diode)) ((light radiation) adj	EPO; JPO;	
		detect\$3)))) and ((flip\$1chip "flip	DERWENT;	
		chip") with (smaller cheaper expensive	IBM_TDB	
		compact improv\$3 increas\$3 decreas\$3		
		enhanc\$4 efficient\$2 reduc\$4))) and		
		369/\$7.ccls.		
-	34	1 , , , , , , , , , , , , , , , , , , ,	USPAT;	2004/02/26
		(photo\$1diode photo\$1detector (photo adj	US-PGPUB;	12:42
		(detector diode)) ((light radiation) adj	EPO; JPO;	
	ĺ	detect\$3)))) and ((flip\$1chip "flip	DERWENT;	
	!	chip") with (smaller cheaper expensive	IBM_TDB	
		compact improv\$3 increas\$3 decreas\$3	,	
		enhanc\$4 efficient\$2 reduc\$4))		
-	2	batinovich-victor.in.	USPAT	2004/02/26
				18:34
-	4	batinovich-victor.in.	USPAT;	2004/02/26
			US-PGPUB	18:34